



Water-Data Report NV-2005

10336730 GLENBROOK CREEK AT GLENBROOK, NV

TRUCKEE RIVER BASIN, LAKE TAHOE

LOCATION.--Lat 39°05'15", long 119°56'20" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.10, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right bank, 50 ft upstream from culvert, 100 ft upstream from mouth at Glenbrook, and 1.8 mi southwest of Spooner Lake.

DRAINAGE AREA.--4.11 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1967-1971. Oct 1971 to Sep 1975, Nov 1987 to current year.

REVISED RECORDS.--WDR NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,240 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov 16, 1987, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow may be affected by pumping or diverting for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 144 ft³/s, Jan 02, 1997, gage height, 6.46 ft.; no flow Aug 12, 1994.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5.0 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 12	2030	5.8	2.02
Mar 27	2115	7.3	2.06
Apr 17	2015	14	2.24
May 09	1600	13	2.22
May 16	0915	21	2.52
May 20	1830	*24	*2.62

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.35	0.86	0.77	e0.66	0.91	1.7	4.0	4.5	6.4	2.1	0.59	0.56
2	0.35	1.0	0.69	e0.66	0.90	1.8	4.6	4.4	6.0	2.0	0.57	0.53
3	0.42	1.4	0.71	e0.67	0.87	1.9	4.8	4.9	6.1	2.0	0.57	0.45
4	0.38	1.2	0.73	e0.68	0.85	1.9	4.5	4.8	5.6	1.9	0.55	0.45
5	0.35	1.2	0.76	e0.69	0.89	2.0	4.2	6.0	4.9	1.7	0.52	0.43
6	0.32	1.2	0.70	e0.70	0.92	1.9	4.5	4.9	4.8	1.6	0.54	0.49
7	0.28	1.4	0.72	e0.72	0.90	2.2	4.9	4.3	4.6	1.6	0.51	0.45
8	0.28	1.9	e0.72	e0.73	0.96	2.7	4.4	5.9	5.0	1.5	0.46	0.45
9	0.28	2.2	e0.71	e0.74	0.85	3.2	4.0	10	5.2	1.5	0.46	0.44
10	0.29	2.4	e0.70	e0.75	0.83	3.3	3.8	7.8	4.7	e1.4	0.43	0.46
11	0.32	2.3	e0.70	e0.76	0.88	4.0	4.0	6.2	4.4	e1.3	0.41	0.43
12	0.34	2.1	e0.70	0.77	1.1	4.6	4.8	6.1	4.1	1.3	0.41	0.48
13	0.35	1.9	e0.69	0.78	1.1	4.6	4.4	7.4	4.2	1.2	0.41	0.46
14	0.41	1.7	e0.69	0.78	1.2	4.0	4.1	11	4.2	1.1	0.40	0.44
15	0.41	1.6	e0.68	0.80	1.3	3.7	4.3	10	4.0	1.1	0.45	0.42
16	0.40	1.5	e0.68	0.82	1.3	3.4	5.3	16	3.7	1.0	0.53	0.40
17	0.55	1.3	e0.68	0.82	1.3	3.4	7.6	9.9	3.9	0.98	0.54	0.39
18	0.72	1.3	e0.67	0.81	1.2	3.2	7.1	13	3.7	0.93	0.48	0.38
19	0.87	1.3	e0.67	0.83	1.3	3.5	5.8	16	3.6	0.89	0.45	0.36
20	0.98	1.2	e0.67	0.93	1.4	3.4	5.3	17	3.4	0.80	0.45	0.34
21	0.62	0.89	e0.67	0.96	1.4	2.8	5.5	14	3.1	0.83	0.42	0.43
22	0.59	0.89	e0.67	0.96	1.4	3.6	5.2	13	3.0	0.83	0.40	0.36
23	0.64	0.90	e0.66	0.97	1.4	3.2	4.4	12	2.8	0.75	0.41	0.35
24	1.5	e0.95	e0.66	1.0	1.4	2.9	4.2	11	2.7	0.68	0.39	0.36
25	0.80	e0.90	e0.66	0.90	1.5	2.9	4.4	11	2.5	0.62	0.39	0.41
26	0.83	e0.85	e0.66	0.92	1.5	3.0	4.7	12	2.5	0.60	0.39	0.43
27	0.69	e0.82	e0.65	0.94	1.6	4.3	4.9	12	2.4	0.60	0.41	0.50
28	0.75	e0.79	e0.65	0.98	1.7	4.8	2.9	11	2.3	0.61	0.44	0.42
29	0.93	e0.77	e0.65	0.94	---	4.1	3.0	9.1	2.2	0.60	0.41	0.42
30	0.97	0.75	e0.64	0.92	---	3.8	3.6	7.6	2.2	0.65	0.50	0.40
31	0.95	---	0.64	0.92	---	3.7	---	6.8	---	0.59	0.56	---
Total	17.92	39.47	21.25	25.51	32.86	99.5	139.2	289.6	118.2	35.26	14.45	12.89
Mean	0.58	1.32	0.69	0.82	1.17	3.21	4.64	9.34	3.94	1.14	0.47	0.43
Max	1.5	2.4	0.77	1.0	1.7	4.8	7.6	17	6.4	2.1	0.59	0.56
Min	0.28	0.75	0.64	0.66	0.83	1.7	2.9	4.3	2.2	0.59	0.39	0.34
Ac-ft	36	78	42	51	65	197	276	574	234	70	29	26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.74	1.02	1.07	1.46	1.33	2.49	3.23	4.65	2.47	0.89	0.53	0.51
Max	1.80	1.87	2.25	8.31	3.08	5.43	7.80	14.0	12.0	3.68	1.95	1.93
(WY)	(1999)	(1999)	(1997)	(1997)	(1997)	(1997)	(1997)	(1999)	(1998)	(1998)	(1999)	(1998)
Min	0.16	0.31	0.34	0.32	0.41	0.66	0.63	0.33	0.24	0.08	0.01	0.04
(WY)	(1993)	(1993)	(1991)	(1991)	(1991)	(1991)	(1992)	(1992)	(1992)	(1991)	(1994)	(1994)

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	Calendar Year 2004		Water Year 2005		Water Years 1972 - 2005	
Annual total	420.11		846.11			
Annual mean	1.15		2.32		1.75	
Highest annual mean					3.97	1998
Lowest annual mean					0.36	1992
Highest daily mean	5.9	Mar 22	17	May 20	85	Jan 2, 1997
Lowest daily mean	0.03	Sep 11	0.28	Oct 7	0.00	Aug 12, 1994
Annual seven-day minimum	0.05	Sep 8	0.30	Oct 6	0.00	Aug 11, 1994
Maximum peak flow			24	May 20	144	Jan 2, 1997
Maximum peak stage			2.62	May 20	6.46	Jan 2, 1997
Annual runoff (ac-ft)	833		1,680		1,270	
10 percent exceeds	2.8		5.2		3.9	
50 percent exceeds	0.88		0.96		1.0	
90 percent exceeds	0.08		0.42		0.18	

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-74, Jul 1987, 1988 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Apr 1998 to Nov 2000 (discontinued).

INSTRUMENTATION.--Water temperature recorder Apr 1998 to Nov 2000 (discontinued), two times per hour.

REMARKS.--In Nov 1987, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Nutrient samples were analyzed by the University of California, Davis, Tahoe Research Group. Quality assurance samples associated with the entire Lake Tahoe Interagency Monitoring Program are listed under station numbers 103366769999 and 103367309999. Hydrazine method used to determine nitrate plus nitrite concentrations (00631) was found to have interferences caused by other common ions in water samples. Values may be adjusted in the future to correct for these interferences.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 16.0°C, Jun 15, 2000; minimum, freezing point several days in winter months.

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 1 of 2

[Remark codes: <, less than; E, estimated.]

Date	Time	Sample type	Instan-	Baro-	Dis-	pH,	Specif.	Ammonia				
			taneous dis- charge, cfs (00061)	metric pres- sure, mm Hg (00025)	solved oxy- gen, mg/L (00300)	solved oxy- gen, percent of sat- uration (00301)	water, unfltrd field, std units (00400)	conduc- tance, wat unf uS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	+ org-N, water, mg/L (00623)	+ org-N, water, mg/L (00625)
Oct												
06...	1520	Environmental	.34	--	--	--	--	530	16.0	9.5	--	.12
Nov												
02...	1440	Environmental	1.0	--	--	--	--	544	10.5	4.0	--	.16
Dec												
08...	1650	Environmental	E.72	608	11.1	95	7.8	494	3.5	.0	.10	.12
Jan												
05...	1550	Environmental	E.69	--	--	--	--	515	-1.0	.0	--	.15
Feb												
03...	0930	Environmental	.92	--	--	--	--	564	4.0	1.0	--	.07
Mar												
04...	1355	Environmental	1.9	608	10.1	95	7.9	621	9.0	3.2	.12	.08
08...	1430	Environmental	2.8	--	--	--	--	649	8.0	4.5	.14	.20
Apr												
05...	1630	Environmental	4.1	--	--	--	--	562	13.0	6.5	.16	.29
16...	1820	Environmental	6.9	--	--	--	--	500	10.5	8.0	.13	.41
22...	1115	Environmental	5.8	--	--	--	--	464	10.5	5.0	.09	.18
28...	1230	Environmental	2.8	--	--	--	--	431	3.5	5.0	.15	.21
May												
02...	1640	Environmental	3.8	--	--	--	--	394	11.0	9.5	.15	.19
04...	1040	Environmental	4.3	--	--	--	--	330	9.0	5.0	.14	.20
05...	1655	Environmental	6.5	--	--	--	--	321	5.5	6.5	.13	.26
09...	1615	Environmental	6.5	--	--	--	--	305	1.5	4.5	.20	.28
12...	1905	Environmental	7.3	--	--	--	--	333	12.5	10.0	.15	.23
16...	1650	Environmental	17	--	--	--	--	208	3.5	4.5	.26	.40
17...	0930	Environmental	11	--	--	--	--	234	7.0	2.5	.19	.23
18...	1920	Environmental	18	--	--	--	--	200	7.5	7.5	.21	.37
20...	1730	Environmental	23	--	--	--	--	174	11.0	9.5	.21	.43
23...	1010	Environmental	9.9	--	--	--	--	190	12.0	5.5	.20	.17
23...	1825	Environmental	14	--	--	--	--	184	18.0	11.5	.19	.30
25...	1850	Environmental	13	--	--	--	--	181	17.5	11.5	.22	.29
27...	1625	Environmental	12	--	--	--	--	182	20.5	13.0	.18	.28
Jun												
01...	1640	Environmental	6.5	--	--	--	--	210	17.5	12.0	.15	.23
09...	1615	Environmental	4.9	608	8.6	95	8.0	254	11.5	9.8	.15	.19
20...	1550	Environmental	3.2	--	--	--	--	299	18.0	11.0	.10	.16
Jul												
05...	1730	Environmental	1.7	--	--	--	--	351	23.0	14.0	.12	.16
Aug												
04...	1425	Environmental	.64	--	--	--	--	413	22.5	14.0	--	.16
04...	1430	Replicate	--	--	--	--	--	--	--	--	--	.16
Sep												
13...	1045	Environmental	.52	611	10.2	106	8.0	418	11.5	7.2	--	.09

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 2 of 2

[Remark codes: <, less than; E, estimated.]

Date	Nitrite + Ammonia water, fltrd, mg/L as N (00608)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Suspnd. sediment, sieve diameter, <.063mm (70331)	Sus-pended sediment percent	Sus-pended sediment concentration mg/L (80154)	Sus-pended sediment discharge, tons/d (80155)
Oct								
06...	.004	.002	.014	.022	.038	--	3	<.01
Nov								
02...	.003	.003	.013	.030	.037	--	3	.01
Dec								
08...	.003	.002	.014	.026	.053	--	6	E.01
Jan								
05...	<.003	.002	.007	.017	.030	--	4	E.01
Feb								
03...	.004	.019	.006	.012	.022	--	1	<.01
Mar								
04...	.006	.041	.005	.011	.019	--	2	.01
08...	.005	.096	.009	.015	.038	--	12	.09
Apr								
05...	<.003	.393	.008	.017	--	--	5	.06
16...	.004	.093	.012	.018	.091	66	38	.71
22...	.003	.119	.009	.022	.036	--	5	.08
28...	.005	.076	.010	.024	.029	--	10	.08
May								
02...	.004	.040	.011	.022	.034	--	7	.07
04...	.005	.042	.012	.021	.033	--	10	.12
05...	.004	.017	.013	.026	.052	--	15	.26
09...	.004	.043	.016	.010	.067	--	19	.33
12...	.004	.010	.012	.023	.050	--	13	.26
16...	.003	.016	.019	.037	.082	55	39	1.8
17...	.007	.022	.014	.031	.044	--	22	.65
18...	.010	.011	.017	.034	.082	58	44	2.1
20...	.003	.008	.018	.038	.120	61	59	3.7
23...	.005	.010	.012	.019	.034	--	11	.29
23...	.006	.004	.015	.022	.052	--	31	1.2
25...	.010	.005	.015	.024	.046	--	13	.46
27...	.008	.004	.013	.021	.045	--	16	.52
Jun								
01...	.004	.005	.013	.019	.030	--	5	.09
09...	.005	.003	.015	.034	.037	--	5	.07
20...	.003	.005	.017	.024	.034	--	6	.05
Jul								
05...	<.003	.009	.023	.032	.058	--	5	.02
Aug								
04...	.004	.015	.025	.034	.042	--	6	.01
04...	.003	.015	.025	.031	.046	--	--	--
Sep								
13...	.004	.008	.019	.027	.037	--	4	.01